

**CME Project: Geometry Student Edition**

Focus on developing students' Habits of Mind - ways students approach and solve mathematical challenges. Includes tables, functions, polynomials, complex numbers, linear algebra, graphs, exponential/logarithmic functions, intro. to trigonometry.

Teacher Edition	
0133500225	\$91.97
CME Project: Geometry Teacher's Edition	
Essential Items	
Ancillary Items	
Free with Purchase items	
0130380598	Classroom Performance System Clickers
Free with the purchase of 250 Student Editions, 1st year only, maximum 1 per school for all Pearson	
0130380601	CME Project: Geometry - Computer Projector
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0130381101	CME Project: Geometry - Interactive Whiteboard System
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SCANNER2008	Scanner Scoring System
One free for every 250 Student Editions purchased, 1st year only, maximum 3 per school OR	

Contract Price

\$71.47

Grade

9, 10, 11, 12

TYPE

P1

Copyright

2009

AuthorCenter for Mathematics  
Education et al.Edition

1st

Content

Geometry

Readability

880L

Accessibility

Nimas

Researchhttp://main.edc.  
org/Search/viewProject  
.asp?projectID=3295

Evaluation Tool for Basal Instructional Materials  
Mathematics (2009 – 2015)

Provided by the Publisher	ISBN    0133500179		Publisher - <b>Pearson Education, Inc., publishing as Prentice Hall</b>		Provided by the Publisher
	<b>CME Project: Geometry Student Edition</b>				
	Type - P1	Author - Center for Mathematics Education et al.			
	Copyright - 2009	Edition - 1st	Readability - 880L		
	Course - Geometry		Grade(s) - 9, 10, 11, 12		
Teacher Edition ISBN if applicable .....0133500225					

<b>Overall Recommendation:</b>  <b>Overall Strengths, Weaknesses, Comments:</b>  <b>Reading level is a little advanced</b> <b>Vocabulary development is minimal</b> <b>Difficult to use with average or below average students</b>	<b>Recommended as BASAL</b>  if this box is not checked, the evaluators have chosen NOT recommend as basal
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NIMAC Accessibility    N  
 Ancillary    No  
 Free with Purchase    Yes  
 Research    Yes    <http://main.edc.org/Search/viewProject.asp?projectID=3295>

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### CRITERIA

This basal resource ...

<b>A. Encompasses KY Content Standards &amp; Grade Level Expectations    Moderate Evidence</b>	
Text is designed to be used in an elective course outside the Program of Studies	
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<b>1) Includes the 5 Big Ideas of mathematics to the following extent:</b>	
a) Number Properties and Operations	Not Applicable
b) Measurement	Moderate Evidence
c) Geometry	Strong Evidence
d) Data Analysis and Probability	Not Applicable
e) Algebraic Thinking	Moderate Evidence
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<b>2) Addresses content-specific enduring understandings from the related Program of Studies standards.</b>	Moderate Evidence
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<b>3) Addresses content-specific skills and concepts from the related Program of Studies standards.</b>	Moderate Evidence
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<b>4) Content addressed is current, relevant and non-trivial</b>	Moderate Evidence
<b>5) Provides opportunities for critical thinking/reasoning</b>	Strong Evidence
<b>6) Strengths, Weaknesses, Comments:</b> <ul style="list-style-type: none"> <li>• Specific strengths-which areas/concepts are covered exceptionally well?</li> <li>• Specific weaknesses-which areas/concepts would likely require supplementing?</li> </ul> <p>Strengths: Visual in nature</p> <p>Weaknesses: Reading level at a higher level Limited right triangle trig Does not stress basics Minimal vocabulary development</p>	

<b>B. Functionality &amp; Suitability</b>	<b>Moderate Evidence</b>
<b>1) Suitability</b>	<b>Moderate Evidence</b>
<ul style="list-style-type: none"> <li>• Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.</li> </ul>	
<b>2) Content quality</b>	<b>Moderate Evidence</b>
<ul style="list-style-type: none"> <li>• Free from factual errors</li> <li>• Content is presented conceptually when possible—more than a mere collection of facts</li> <li>• Content included accurately represents the knowledge base of the discipline</li> <li>• Theories/scientific models contained represent a broad consensus of the scientific community</li> <li>• Interconnections among mathematical topics</li> </ul>	
<b>3) Connections to Literacy</b>	<b>Moderate Evidence</b>
<ul style="list-style-type: none"> <li>• Employs a variety of reading levels and is grade/level appropriate</li> <li>• Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.</li> <li>• Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.</li> <li>• Student text provides opportunity to integrate reading and writing</li> <li>• Uses vocabulary that is age and content appropriate</li> <li>• Focuses on critical vocabulary vs. extensive lists</li> <li>• Identifies key vocabulary through definitions in both text and glossary</li> <li>• The text is engaging and facilitates learning</li> <li>• Embedded activities enhance the understanding of the text</li> </ul> <p><i>Note: may apply to either student or teacher editions</i></p>	
<b>4) Connections to Technology</b>	<b>Moderate Evidence</b>
<ul style="list-style-type: none"> <li>• Integrates technology and reflects the impact of technological advances</li> <li>• Uses technology in the collection and/or manipulation of authentic data</li> </ul>	

- Embeds web links as a mathematics resource.

## 5) Support for Diverse Learners

Little or No Evidence

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties

*Note: may apply to either student or teacher editions*

## 6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Strengths:

Good TI navigator appendix

Web links embedded throughout

Multiple challenges for gifted and talented

Weaknesses:

No support for diverse learners

Difficult reading level for most students

## C. Supports Inquiry and Skill Development

Strong Evidence

### 1) Promotes Inquiry, research and Application of Learning

Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.

*Note: may apply to either teacher or student edition*

### 2) Skill Development

Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

*Note: may apply to either teacher or student edition*

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**3) Strengths, Weaknesses, Comments:**

Strengths:

Questions designed to use previous knowledge and critical thinking

Weaknesses:

Lacks middle level questions(goes from basic to advanced)

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<b>D. Supports Best Practices of Teaching and Learning</b>	<b>Moderate Evidence</b>
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**1) Engages Students**

Moderate Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

*Note: may apply to either teacher or student edition*

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**2) Uses Assessment to Inform Instruction**

Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

*Note: may apply to either teacher or student edition*

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**3) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

Strengths:

Weaknesses:

Fair amount of content does not meet the needs of large population of KY students

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<b>E. Has an Organization/ Format that Supports Learning and Teaching</b>	<b>Moderate Evidence</b>
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**1) Organizational Quality**

Moderate Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
  - Presents chapters/lessons in an organized and logical sequence
  - Provides clearly stated objectives for each lesson.
  - Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
  - Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual
-

Evaluation Tool for Basal Instructional Materials  
Mathematics (2009 – 2015)

- manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

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**2) Essential Components (beyond student and teacher text)**

Choose an item.

- Items identified as essential components support the learning goals and concept coverage of the basal

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**3) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Strengths:

“Minds in Action” feature provides an excellent way of communicating about mathematics

Weaknesses:

NO Essential components

Objectives not clearly stated

Sequence is not easy to follow

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**F. Has available Ancillary/ Gratis Materials**

*Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*

**Little or No Evidence**

**1) Ancillary/Gratis Materials**

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

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**2) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Strengths:

Practice workbook

Weaknesses:

Refers to Geometry software (pg. 36) – software not provided

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